Data Sheet

We make sure

FUJITSU COMPUTERS SIEMENS

FUTRO A200 Series
The smart solution with more power than you expect!

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Take a look at the A200-series and find out how smart today`s thin client computing can be – and it is more powerful than you would think it is!

The FUTRO A is ideally suited for Windows Terminal Server computing. The server executes the applications, the screen is displayed on the client. Your data is saved secure on the server and is therefore protected against loss. Also the operating system is stored secure on a flash memory and safe from unauthorized changes due to a write protected file system.

Scout Enterprise is the perfect administration tool and helps you to manage and update the client easily.

Space saving desing, no fan and rotating drives turn the FUTRO A2xx into the ideal thin client for your project and into a minimizer of Total Cost of Ownership.

Accessibility

- eLux NG or Windows CE 5.0 operating system with ICA / RDP protocol and terminal emulations
- TCP/IP network integration with DNS and DHCP support
- 10/100/1000 Mbit/s Ethernet LAN controller with PXE bootcode on board
- Explorer for direct internet connection
- Support of extended memory with MEMORYBIRD, external USB CD-ROM drive and a wide range of Fujitsu Siemens Computers' keyboards

Reliability

- Cost-optimized and trusted solution for displaying and running Windows applications
- Approved by Microsoft Terminal Server and Citrix MetaFrame XP 1.8 / Presentation Server 3.0 / 4.0
- Highest quality design and function stability

Manageability

- Scout Enterprise remote administration is available as option for Windows CE 5.0 and in combination with eLuxNG
- Simple network administration: programs and data are on the server
- Easy configuration, administration and system monitoring via optional tools
- Cost-effective remote administration via SNMP and DHCP standard protocols
- Manageability tool Scout Enterprise for embedded Linux solution

Security

- Optional external SmartCard reader
- SmartCard support by Certification Server (RDP & ICA)
- Access protection through Fujitsu Siemens Computers' SmartCard solution with Sicrypt and CardOS SmartCards
- Secure operating system embedded on flash memory
- Comfortable security support for SmartCard integration in connection with Citrix MetaFrame
- Secure data transaction via VPN available

Ergonomics

- Stress-free working and silent operation without any rotating fan and drives
- Very low power consumption, low heat dissipation

Operating system and software

Windows CE 5.0	**eLux NG**
Microsoft Operating System CE 5.0	**eLux NG is a Linux based embedded operating system, specially developed for use in FUTRO to apply as thin clients in server-based environments.**
Target group From Small Enterprises to Large Accounts with focus to Thin Client computing via ICA/RDP protocol and reduced use of local applications like emulation suite from Ericom	**Target group** From Small Enterprises to Large Accounts with use of Thin Client access via ICA/RDP and Browser. Wide range of additional local functions possible.
Local functions ■ ICA-Client ■ RDP-Client ■ Internet Explorer ■ Media Player ■ VNC Viewer ■ VPN Client ■ ThinPrint Client ■ Acrobat Viewer ■ Terminal emulation PowerTerm (ANSI, VT320/420, IBM 3270/5250) optional, additonal license necessary	**Local functions** ■ ICA-Client V 9.0 ■ RDP-Client V 5.2 functionality ■ Browser Mozilla, Opera or Firefox available ■ Acrobat Reader ■ Sun JVM 1.5 ■ Tarantella-Client ■ Terminal emulations for ANSI, 97801, VT320 ■ X.11 terminal application **Local functions requiring further licenses** IBM 3270 / 5250, FSC 9750 emulation, additional license requested, provided by UniCon Software Developement
Manageability with Scout Enterprise (license required, evaluation right for up to 3 seats): ■ FUTRO utility tool for CE 5.0 - Flash memory management - Embedded operating system update and system monitoring - Managing devices by location, group or user	**Manageability with Scout Enterprise (license required, evaluation right for up to 3 seats):** ■ FUTRO utility tool for embedded Linux - Flash memory management - Embedded operating system update and system monitoring - Managing devices by location, group or user - Individual operating system composition with ELIAS
Security ■ Control Panel Password ■ Control Connection Configuration ■ Control Default Reset	**Security** ■ SmartCard support within/without certificate for CardOS or GemPlus cards Sicrypt cards without certificate functionality
VPN ■ Only via CUZ	**VPN** ■ VPN client from Cisco (license required) ■ VPN client Free S/WAN
Smartcard Support ■ Driver Support for Fujitsu Siemens Computers USB SmartCard Reader Solo 2	**Smartcard Support** ■ Driver Support for Fujitsu Siemens Computers USB SmartCard Reader Solo 2
Hardware Support ■ USB Fujitsu Siemens Computers Memorybird V2.0 Rev.2 ■ PS/2 or USB Keyboard ■ PS/2 or USB Mouse	**Hardware Support** ■ USB Fujitsu Siemens Computers Memorybird V2.0 Rev.2 ■ PS/2 or USB Keyboard ■ PS/2 or USB Mouse

Model	**FUTRO A210**	**FUTRO A220**	**FUTRO A230**
Operating System	Microsoft® Windows® CE 5.0	Microsoft® Windows® CE 5.0	eLux ® NG
Managing Software	(option for Scout Enterprise)	Scout Enterprise (license incl.)	Scout Enterprise (license incl.)
Type	Thin client terminal	Thin client terminal	Thin client terminal
Software	Software Flash memory includes: Operating system Microsoft® Windows® CE 5.0 - ICA-Client - RDP-Client - Internet Explorer - Media Player - VNC Viewer - VPN Client - ThinPrint Client - Acrobat Viewer - Terminal Emulation PowerTerm (ANSI, VT320/420, IBM 3270/5250), optional additonal license necessary	Software Flash memory includes: Operating system Microsoft® Windows® CE 5.0 - ICA-Client - RDP-Client - Internet Explorer - Media Player - VNC Viewer - VPN Client - ThinPrint Client - Acrobat Viewer - Terminal Emulation PowerTerm (ANSI, VT320/420, IBM 3270/5250), optional additonal license necessary	Flash memory includes: Operating system eLux NG - ICA-Client - RDP-Client functionality - Browser - Acrobat Reader - Sun JVM 1.5 - Tarantella-Client - Terminal-Emulations for ANSI, 97801, VT320 - X.11 Terminal-Application
Flash memory for operating system (MByte)	128	128	128
Mainboard	OEM	OEM	OEM
Cabinet	Picotower	Picotower	Picotower
Processor	AMD LX800, 500 MHz	AMD LX800, 500 MHz	AMD LX800, 500 MHz
System Bus	-	-	-
Memory (MByte)	128	128	128
Floppy disk drive	optional via USB	optional via USB	optional via USB
Optical drive	optional via USB	optional via USB	optional via USB
Hard disk drive (GByte)	optional via USB	optional via USB	optional via USB
Slots	-	-	-
Graphics (MByte)	VESA display support with DDC for automatic adjustment of resolution and refresh rate 32 MB discrete VideoRAM	VESA display support with DDC for automatic adjustment of resolution and refresh rate 32 MB discrete VideoRAM	VESA display support with DDC for automatic adjustment of resolution and refresh rate 32 MB discrete VideoRAM
Audio	on board	on board	on board
LAN (on board)	10/100 /1000 MBit/s Fast Ethernet	10/100 /1000 MBit/s Fast Ethernet	10/100 /1000 MBit/s Fast Ethernet
Weight (kg)	approx. 0.6	approx. 0.6	approx. 0.6
Dimensions (H x W x D) in mm	195 x 152 x 43	195 x 152 x 43	195 x 152 x 43
Options	-	-	-
Special features	Fanless, silent operation, very low power consumption (typ. 10 W, max. 30 W), high reliability, long service life, no maintenance, small space requirement	Fanless, silent operation, very low power consumption (typ. 10 W, max. 30 W), high reliability, long service life, no maintenance, small space requirement	Fanless, silent operation, very low power consumption (typ. 10 W, max. 30 W), high reliability, long service life, no maintenance, small space requirement
Previous model	FUTRO A120	FUTRO A120	FUTRO A120

Interfaces
1 x Mic in / headphone out (rear)
1 x Line out (rear)
1 x keyboard (PS/2) (rear)
1 x mouse (PS/2) (rear)
1 x monitor (15-pin, VGA)
1 x LAN RJ-45
1 x serial
1 x Universal Serial Bus (USB 2.0) (rear)
2 x Universal Serial Bus (USB 2.0) (front)

Display modes
VESA monitor support with DDC for automatic setting of resolution and refresh rate

Video RAM 32 MB	shared memory
Resolution selectable	
32/24/16/8 bit colors	1600 x 1200 / max 100 Hz
32/24/16/8 bit colors	1280 x 1024 / max 100 Hz
32/24/16/8 bit colors	1024 x 768 / max 100 Hz
32/24/16/8 bit colors	800 x 600 / max 100 Hz
32/24/16/8 bit colors	640 x 480 / max 100 Hz

Connectivity **TP (Twisted Pair), RJ-45**
TCP/IP with DNS and DHCP
Point-to-Point over Ethernet
Point-to Point tunneling protocol
Layer-2 tunneling protocol
Supported Citrix Load Balancing on ICA
SNMP support allows configuration of terminal settings, reporting of terminal configuration and attached devices, traps
DHCP support for automatic firmware upgrades and unit configuration
Multiple master browser support on ICA
Wake on LAN
PXE

Electrical values (external AC/DC power supply)

Rated voltage (AC input)	100 - 240 V
Rated frequency	50/60 Hz
DC output	12V, tbd A,

Power consumption for standard configuration (AC input)

Peak (running application)	8.5 W
Average (running OS, Idle mode)	7 W
Minimum (ACPI status S5, soft-off)	2.3 W

Temperature / dimensions / weight

Ambient temperature	15°C – 35°C (IEC721)
Dimensions (H x W x D)	195 x 152 x 43
Weight0.75 kg	

Compliance with standards

Product safety	IEC60950, EN60950, UL60950, CAN/CSA-C22.2 No.60950-00
Electromagnetic Compatibility	EN55022 class B, EN55024 EN61000-3-2/-3, FCC class B, ICES-003 tbd
CE-Certification	according to EC Directive 89/336/EEC 73/23/EEC

Security functions
Security functions implemented in the cabinet:
- Access protection via external SmartCard reader (optional)
- Write-protect facility for Flash EPROM
- Kensington Lock at rear side

Available languages
English for CE.
Selected for eLuxNG

Backpacksolution* for FUTRO A200 in combination with 19/17 inch LCD Monitor SCENICVIEW B19-2 or SCENICVIEW B17-2

The backpack solution for FUTRO A200 in combination with SCENICVIEW B19-2 or B17-2 offers a smart solution to combine the small form factor thin client FUTRO A200 and a TFT display to one space saving unit. It is positioned against the competitive “All-in-one” Thin Clients (integrated in Display).

Value add is also that with the extended mounting bracket the cables are hidden which is resulting in a very tidy workplace.

Our backpack solution offers big advantages due the possibility for changing the Thin Client or the LCD Monitor whenever it is necessary.

The backpack solution fulfills all ergonomic standards and fits perfect for:
- Small office environment
- Point of sales and shops
- Internet and Information terminals

Order code: S26361-F2601-L518

* only usable with FUTRO A120 or FUTRO A200 and SCENICVIEW B19-2 or SCENICVIEW B17-2

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